## INTERNATIONAL SEARCH REPORT

International application No.

	<del></del>	PC1/UP	2004/013123
A. CLASSIFI Int.Cl	CATION OF SUBJECT MATTER . F16C33/64, 19/18, B60B35/18	3	
	ternational Patent Classification (IPC) or to both nati	onal classification and IPC	
B. FIELDS SI			
Int.Cl	mentation searched (classification system followed by F16C33/58-33/64, 19/18, B60	classification symbols) B35/12-35/18	
Kokai J	itsuyo Shinan Koho 1971-2004 ,	Toroku Jitsuyo Shinan Koho Jitsuyo Shinan Toroku Koho	1994-2004 1996-2004
Electronic data b	pase consulted during the international search (name of	of data base and, where practicable, search to	erms used)
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
Y ()	JP 11-129703 A (NSK Ltd.), 18 May, 1999 (18.05.99),		1-2,4-5, 7-8
	& JP 11-5404 A & US 2001/0046339 A1 & US 2002/0146185 A1 & EI & EP 1314903 A2 & US & EP 1319854 A2	P 10-196661 A S 6280096 A1 S 6422758 B1 P 1312821 A2 S 2003/0103705 A1	3,6,9-10
¥ ②	JP 5-277615 A (NTN Corp.), 26 October, 1993 (26.10.93), Par. No. [0012]; Fig. 3 (Family: none)	·	1-10
Further documents are listed in the continuation of Box C.			
Special categories of cited documents:  document defining the general state of the art which is not considered to be of particular relevance  earlier application or patent but published on or after the international		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention occurs to	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be	
special reason (as specified) O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  "&" document member of the same patent family	
Date of the actual completion of the international search 06 December, 2004 (06.12.04)		Date of mailing of the international search report 21 December, 2004 (21.12.04)	
lame and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
acsimile No.		Telephone No.	

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PCT/JP2004/013123

C (Continuation)	DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
ү (3) A	JP 2003-97569 A (NSK Ltd.), 03 April, 2003 (03.04.03), Claims; Par. No. [0021]; Fig. 1 (Family: none)	3,6,9-10 1-2,4-5, 7-8
АŲ	<pre>JP 2002-21858 A (NTN Corp.), 23 January, 2002 (23.01.02), (Family: none)</pre>	1-10
A (5)	JP 2002-103905 A (Koyo Seiko Co., Ltd.), 09 April, 2002 (09.04.02), (Family: none)	1-10
	0 (continuation of second sheet) (January 2004)	